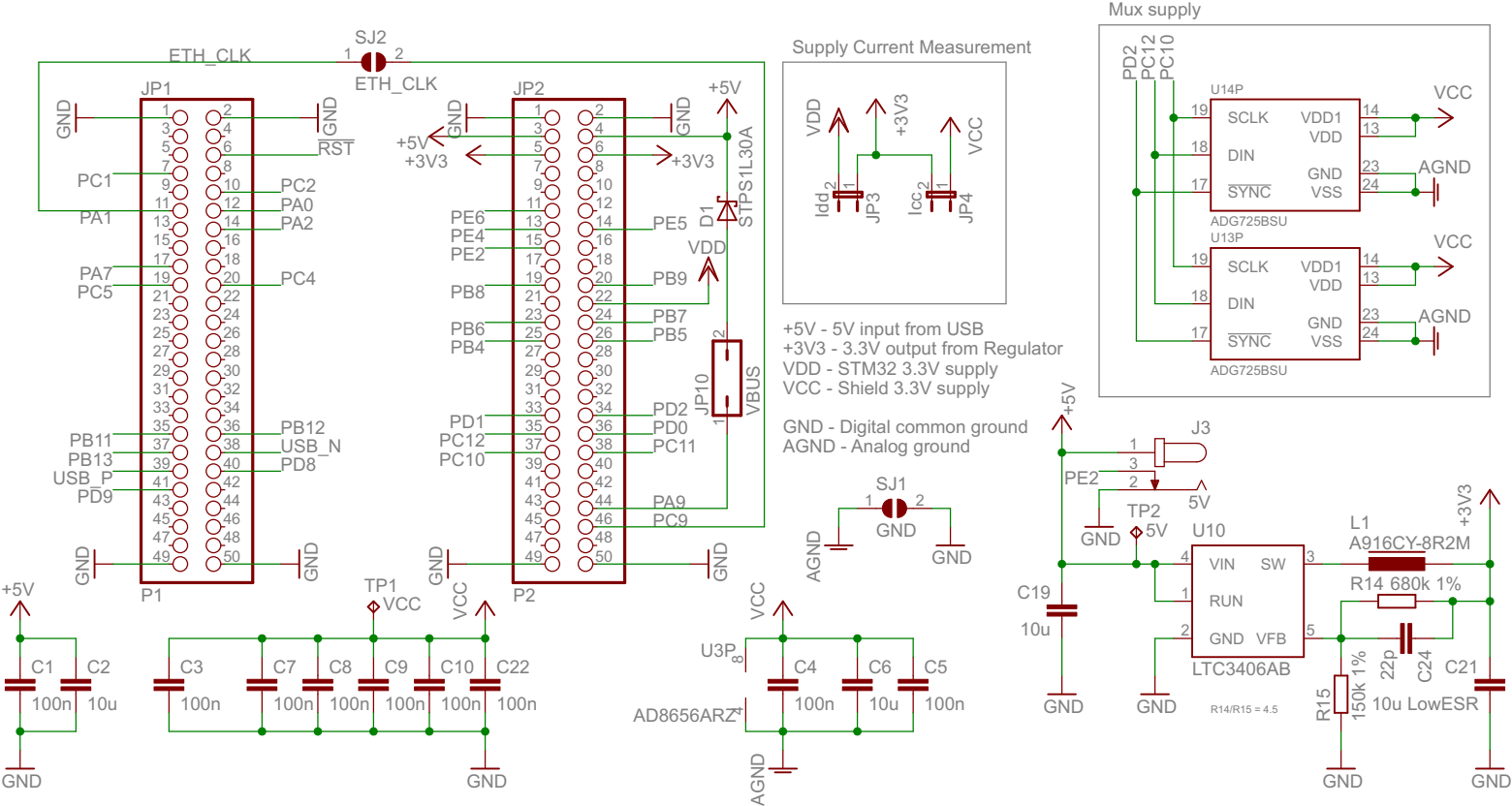
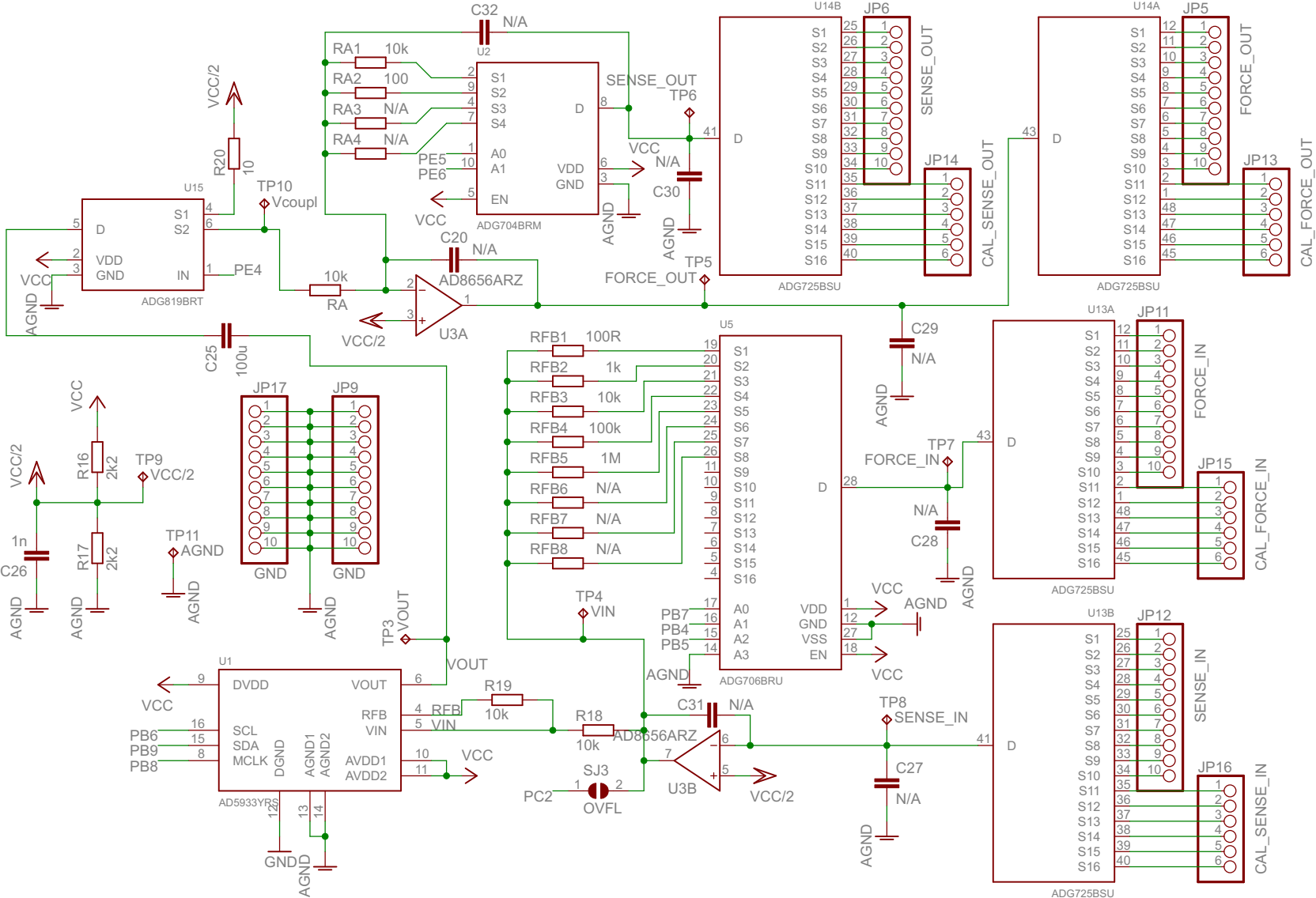
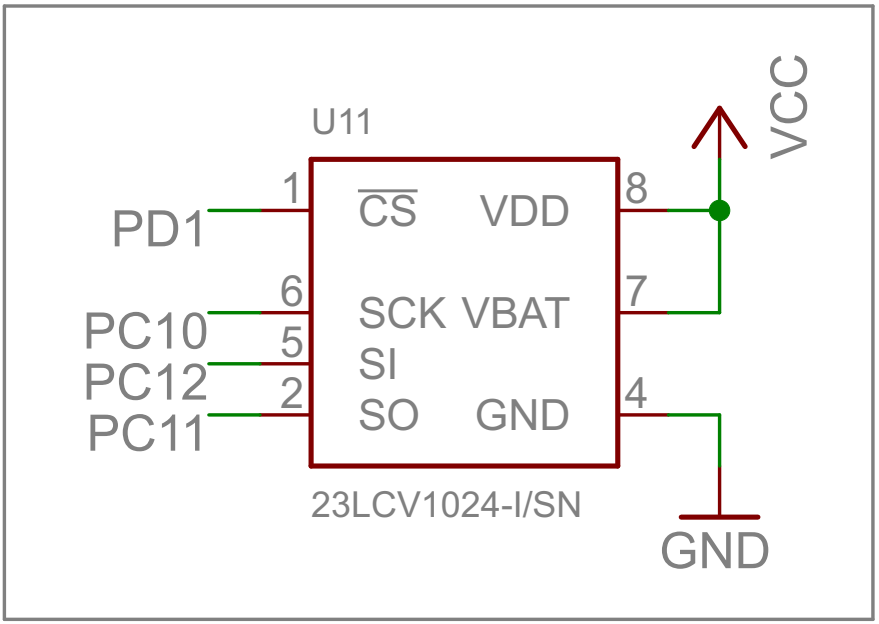
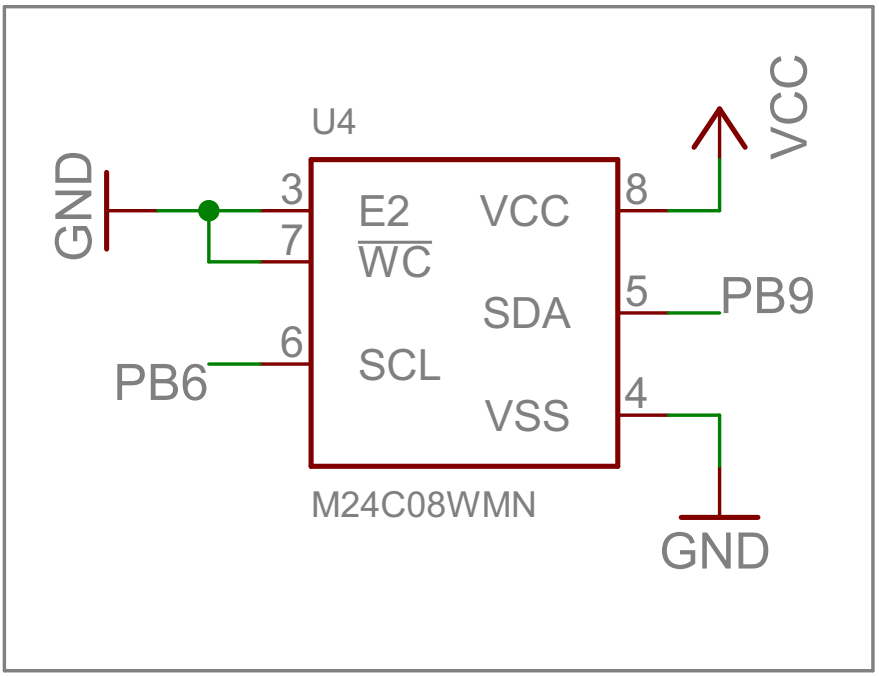

ETH_CLK
SJ2
ETH_CLK
JP1
JP2
P1
P2
GND
RST
PC1
PC2
PA1
PA0
PA2
PA7
PC4
PC5
PB11
PB12
USB_N
PB13
PD8
USB_P
PD9
+5V
+3V3
PE6
PE4
PE2
PE5
D1
STPS1L30A
VDD
PB8
PB9
PB7
PB6
PB5
PB4
JP10
VBUS
PD1
PD2
PC12
PD0
PC10
PC11
PA9
PC9
TP1
VCC
C1
C2
100n
10u
C3
C7
C8
C9
C10
C22
U3P
AD8656ARZ
C4
C6
C5
AGND
SJ1
Supply Current Measurement
Idd
JP3
Icc
JP4
+5V - 5V input from USB
+3V3 - 3.3V output from Regulator
VDD - STM32 3.3V supply
VCC - Shield 3.3V supply
GND - Digital common ground
AGND - Analog ground
Mux supply
U14P
U13P
SCLK
DIN
SYNC
VDD1
VDD
GND
VSS
AGND
ADG725BSU
J3
PE2
TP2
5V
U10
VIN
SW
RUN
GND
VFB
LTC3406AB
C19
L1
A916CY-8R2M
R14 680k 1%
R15
150k 1%
22p
C24
C21
10u LowESR
R14/R15 = 4.5


C32
N/A
U2
RA1
10k
RA2
100
RA3
N/A
RA4
N/A
PE5
PE6
S1
S2
S3
S4
A0
A1
EN
D
VDD
GND
ADG704BRM
SENSE_OUT
TP6
VCC
N/A
C30
AGND
VCC/2
R20
10
U15
TP10
Vcoupl
D
S1
S2
VDD
GND
IN
PE4
ADG819BRT
VCC
AGND
10k
RA
C20
N/A
AD8656ARZ
U3A
VCC/2
TP5
FORCE_OUT
C25
100u
U14B
JP6
SENSE_OUT
JP14
CAL_SENSE_OUT
ADG725BSU
U14A
JP5
FORCE_OUT
JP13
CAL_FORCE_OUT
ADG725BSU
C29
N/A
AGND
U13A
JP11
FORCE_IN
JP15
CAL_FORCE_IN
ADG725BSU
TP7
FORCE_IN
N/A
C28
AGND
U5
RFB1
100R
RFB2
1k
RFB3
10k
RFB4
100k
RFB5
1M
RFB6
N/A
RFB7
N/A
RFB8
N/A
PB7
PB4
PB5
A0
A1
A2
A3
VDD
GND
VSS
EN
ADG706BRU
TP4
VIN
VCC
AGND
VCC
JP17
JP9
GND
GND
R16
2k2
TP9
VCC/2
R17
2k2
1n
C26
TP11
AGND
TP3
VOUT
U1
DVDD
VOUT
RFB
VIN
SCL
SDA
MCLK
DGND
AGND1
AGND2
AVDD1
AVDD2
AD5933YRS
PB6
PB9
PB8
R19
10k
R18
10k
C31
N/A
AD8656ARZ
U3B
SJ3
PC2
OVFL
VCC/2
TP8
SENSE_IN
C27
N/A
AGND
U13B
JP12
SENSE_IN
JP16
CAL_SENSE_IN
ADG725BSU

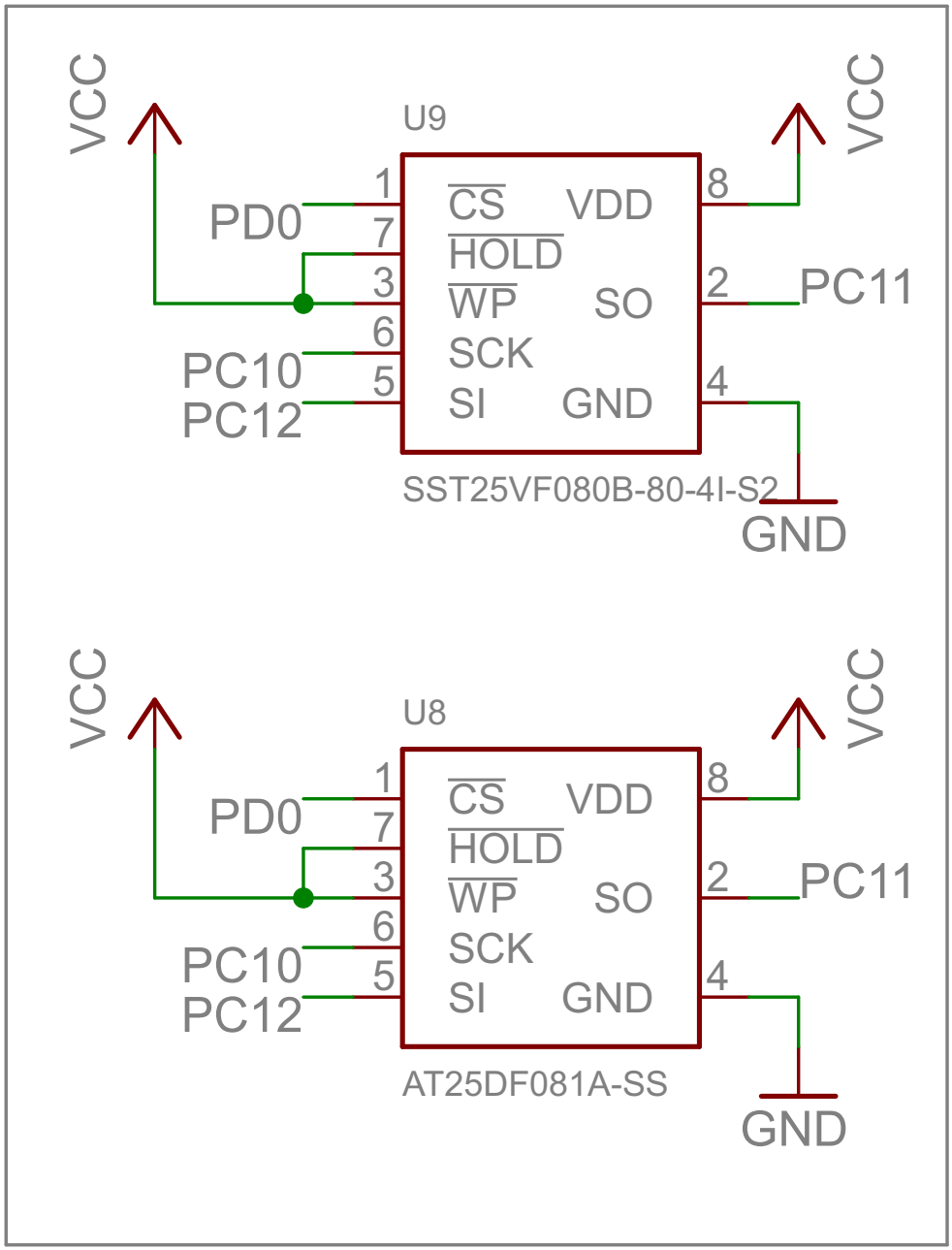
SRAM

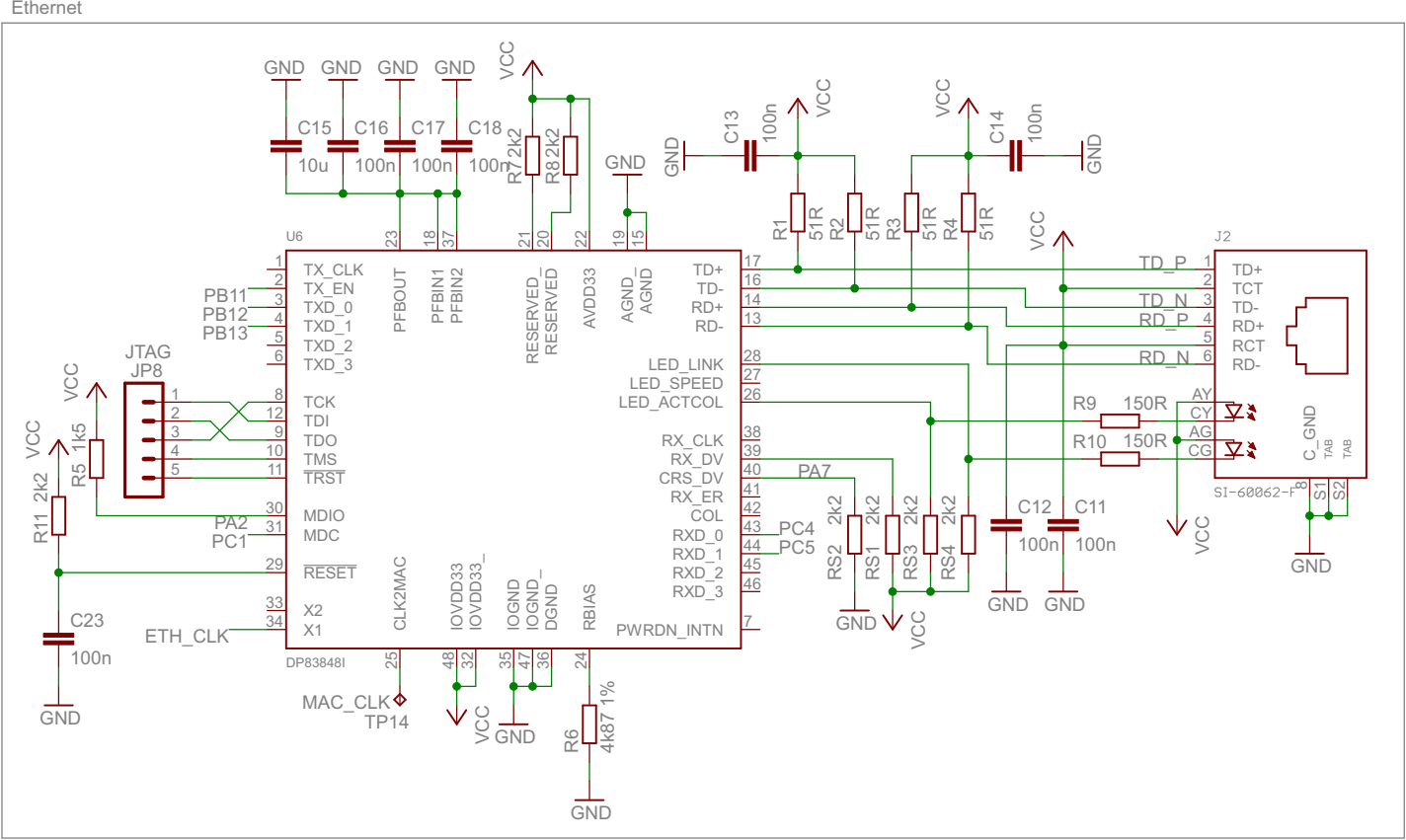


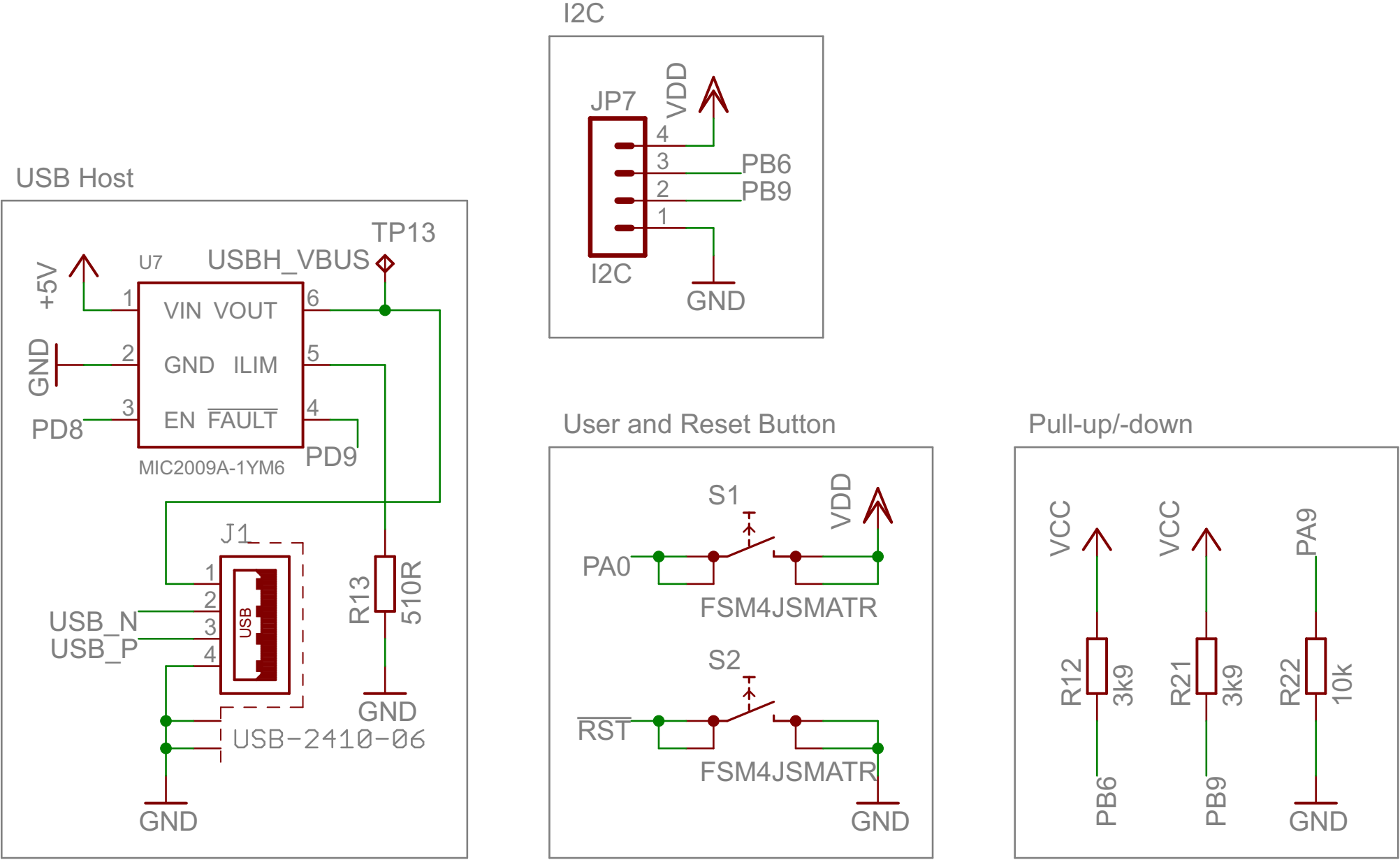
EEPROM



Flash




GND
C15
10u
C16
100n
C17
100n
C18
100n
VCC
R7 2k2
R8 2k2
C13
100n
C14
100n
R1 51R
R2 51R
R3 51R
R4 51R
U6
TX_CLK
TX_EN
TXD_0
TXD_1
TXD_2
TXD_3
PB11
PB12
PB13
PFBOUT
PFBIN1
PFBIN2
RESERVED
RESERVED
AVDD33
AGND_
AGND
TD+
TD-
RD+
RD-
LED_LINK
LED_SPEED
LED_ACTCOL
RX_CLK
RX_DV
CRS_DV
RX_ER
COL
RXD_0
RXD_1
RXD_2
RXD_3
PWRDN_INTN
TCK
TDI
TDO
TMS
TRST
MDIO
MDC
RESET
X2
X1
CLK2MAC
IOVDD33
IOVDD33_
IOGND
IOGND_
DGND
RBIAS
DP83848I
JTAG
JP8
R5 1k5
R11 2k2
PA2
PC1
C23
100n
ETH_CLK
MAC_CLK
TP14
R6
4k87 1%
PA7
PC4
PC5
RS1 2k2
RS2 2k2
RS3 2k2
RS4 2k2
R9 150R
R10 150R
C12
100n
C11
100n
J2
TD_P
TD_N
RD_P
RD_N
TD+
TCT
TD-
RD+
RCT
RD-
AY
CY
AG
CG
C_GND
TAB
SI-60062-F
S1
S2


I2C
JP7
VDD
4
3
2
1
PB6
PB9
I2C
GND
USB Host
TP13
U7
USBH_VBUS
+5V
1
VIN VOUT
6
GND
2
GND ILIM
5
PD8
3
EN FAULT
4
PD9
MIC2009A-1YM6
J1
1
2
3
4
USB
USB_N
USB_P
R13
510R
GND
USB-2410-06
GND
User and Reset Button
S1
VDD
PA0
FSM4JSMATR
S2
RST
FSM4JSMATR
GND
Pull-up/-down
VCC
VCC
PA9
R12
3k9
R21
3k9
R22
10k
PB6
PB9
GND